

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 4 of 22

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) An implantable prosthesis, comprising:
  - (a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;
  - (b) at least one opening extending from the first surface to the second surface; the opening comprising (i) an upper portion comprising an extended nonthreaded frustoconical taper section extending through a substantial portion of the opening and (ii) a lower portion, a rounded section beginning at a narrow end of the frustoconical taper section and having a smaller diameter than the frustoconical taper section, wherein the opening accommodates an insertion member at multiple orientations relative to the component; and
  - (c) an insertion member having a head which includes a rounded, nonfrustoconical contact surface that when inserted in the opening contacts said the frustoconical taper section of said opening the upper portion at multiple orientations relative to the prosthetic component and does not contact the lower portion, when the insertion member is inserted into the opening

whereby the insertion member head fits in the upper portion of the opening in a substantially fluid tight relationship and contacts the frustoconical taper section when locked relative to the frustonical taper at a plurality of angular orientations between the insertion

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 5 of 22

member and the opening, and the head of the insertion member does not protrude beyond the first surface.

2. (Previously Presented) The implantable prosthesis of claim 1, wherein once the appropriate orientation of the insertion member is selected, the insertion member locks relative to the frustoconical taper section.
3. (Currently amended) The implantable prosthesis of claim 1, wherein the ~~rounded section~~ lower portion is a curved surface, a rounded surface, or a spherical surface.
4. (Previously Presented) The implantable prosthesis of claim 1, wherein the head of the insertion member comprises an outer edge that is spherical, near-spherical, toroidal, elliptical, global, slightly curved, or rounded.
5. (Original) The implantable prosthesis of claim 1, wherein the insertion member comprises one or more of a bone screw, a bone peg, a bone spike, or an aperture cover.
6. (Previously Presented) The implantable prosthesis of claim 1, wherein the contact surface of the insertion member head is part of a sphere.
7. (Previously Presented) The implantable prosthesis of claim 1, wherein the opening has an inner wall, the head has an outer rim, and wherein the insertion member maintains a

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 6 of 22

constant point of contact between the inner wall and the outer rim when the insertion member is inserted into the opening at an angle.

8. (Original) The implantable prosthesis of claim 1, wherein the prosthesis comprises a hip replacement system and wherein the first and second surfaces are surfaces of an acetabular cup.

9. (Canceled)

10. (Previously Presented) The implantable prosthesis of claim 1, wherein the opening is a universal-type opening and wherein the insertion member comprises any one of bone screw, a bone peg, a bone spike, or an aperture cover, wherein any one of the bone screw, a bone peg, a bone spike, or an aperture cover comprises a universal-type contact surface that corresponds to the universal-type opening.

11.-12.(Canceled)

13. (Currently amended) An acetabular implant for fixation to a patient, comprising:

(a) an acetabular cup having an inner surface, an outer surface, and at least one opening extending from the inner surface to the outer surface, wherein the outer surface is oriented toward a bone in which the component is to be implanted;

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 7 of 22

(b) the at least one opening having an upper portion and a lower portion, the upper portion comprising an extended nonthreaded frustoconical tapered section that extends through a substantial portion of the opening; and

(c) an insertion member for insertion into the opening, the member comprising a head which includes a rounded, nonfrustoconical contact surface that contacts said ~~frustoconical tapered section~~ the upper portion of said opening and does not contact the lower portion;

wherein the at least one opening accommodates more than one type of insertion member, and

whereby the insertion member head fits in the upper portion of the opening in a substantially fluid tight relationship and contacts the frustoconical taper section when locked relative to the frustonical taper at a plurality of angular orientations between the insertion member and the opening, and the head of the insertion member does not protrude beyond the inner surface of the cup.

14. (Previously Presented) The acetabular implant of claim 13, wherein once the appropriate orientation of the insertion member is selected, the insertion member locks relative to the frustoconical taper section.

15. (Previously Presented) The acetabular implant of claim 13, wherein the head comprises an outer edge that is spherical, near-spherical, toroidal, elliptical, global, slightly curved, or rounded.

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 8 of 22

16. (Previously Presented) The acetabular implant of claim 13, wherein the opening has an inner wall, the head has an outer rim, and wherein the insertion member maintains a constant point of contact between the inner wall and the outer rim when the insertion member is inserted into the opening at an angle.
17. (Previously Presented) The acetabular implant of claim 13 further comprising a femoral stem and a cup liner.
18. (Original) The acetabular implant of claim 13, wherein the insertion member comprises a bone screw, a bone peg, a bone spike, or an opening cover.
- 19.-24.(Canceled)
25. (Currently amended) An acetabular implant for fixation to a patient, comprising:
  - (a) an acetabular cup having an inner surface, an outer surface, and at least one opening extending from the inner surface to the outer surface,
  - (b) the at least one opening having an upper portion and a lower portion, the upper portion comprising an extended nonthreaded frustoconical tapered section extending through a substantial portion of the opening and a the lower portion comprising a rounded section beginning at a narrow end of the frustoconical taper section and having a diameter smaller than the diameter of the opening at the inner surface;

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 9 of 22

(c) an insertion member for insertion into the opening, the insertion member comprising a head, which includes a rounded, nonfrustoconical contact surface that contacts said frustoconical tapered section of said opening when the insertion member is inserted into the opening;

wherein the at least one opening accommodates more than one type of insertion member; and

whereby the insertion member head fits in the opening in a substantially fluid tight relationship and contacts the upper portion frustoconical taper section when locked relative to the frustonical taper at a plurality of angular orientations between the insertion member and the opening, and

whereby the insertion member head does not contact the lower portion, so that the head of the insertion member does not protrude beyond the inner surface of the cup.

26. (Currently amended) The acetabular cup of claim 25, further comprising:

(d) a liner for lining the inner surface of the acetabular cup; and

(e) a femoral component for insertion into a patient's femur that cooperates with the acetabular cup and the liner.

27. (Currently amended) A method of replacing at least part of a hip joint in a patient, comprising:

(a) providing an acetabular implant for fixation to a patient, comprising:

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 10 of 22

(1) an acetabular cup having an inner surface, an outer surface, and at least one opening extending from the inner surface to the outer surface;

(2) the at least one opening having an upper portion and a lower portion, the upper portion comprising an extended nonthreaded frustoconical tapered section extending through a substantial portion of the opening and a rounded section beginning at a narrow end of the frustoconical taper section and having a diameter smaller than the diameter of the opening at the inner surface;

(3) an insertion member for insertion into the opening, the insertion member comprising a head which includes a rounded, nonfrustoconical contact surface that contacts said upper portion frustoconical tapered section of said opening when the insertion member is inserted into the opening and does not contact the lower portion;

wherein the at least one opening accommodates more than one type of insertion member; and

whereby the insertion member head fits in the opening in a substantially fluid tight relationship and contacts the upper portion frustoconical taper section when locked relative to the frustoconical taper at a plurality of angular orientations between the insertion member and the opening, and the head of the insertion member does not protrude beyond the inner surface of the cup;

- (b) preparing the bone of the patient's hip to receive the acetabular implant; and
- (c) implanting the acetabular implant.

28. (Cancelled)

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 11 of 22

29. (Original) The method of claim 27, further comprising providing an acetabular cup liner and positioning the acetabular cup liner in the acetabular cup.
30. (Previously Presented) The method of claim 27, further comprising providing a femoral prosthesis and positioning the femoral prosthesis in a patient's femur, such that the femoral prosthesis can cooperate with the acetabular implant.
31. (Previously Presented) The method of claim 27, wherein once the appropriate orientation of the insertion member is selected, the insertion member locks relative to the frustoconical taper section such that the head of the insertion member does not protrude beyond the first surface.
32. (Currently amended) The method of claim 27, wherein the ~~rounded section lower portion~~ is a curved surface, a rounded surface, or a spherical surface.
33. (Previously Presented) The method of claim 27, wherein the head comprises an outer edge that is spherical, near-spherical, toroidal, elliptical, global, slightly curved, or rounded.
34. (Original) The method of claim 27, wherein the insertion member comprises one or more of a bone screw, a bone peg, a bone spike, or an aperture cover.

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 12 of 22

35. (Previously Presented) The method of claim 27, wherein the contact surface of the insertion member head comprises part of a sphere.
36. (Previously Presented) The method of claim 27, wherein the opening has an inner wall, the head has an outer rim, and wherein the insertion member is inserted into the opening at an angle while maintaining a constant point contact between the inner wall and the outer rim.
37. (Previously Presented) The method of claim 27, wherein the interface between the contact surface of the head and the extended taper section comprises a liquid-tight seal.
38. (Previously Presented) The method of claim 27, wherein the opening is a universal-type opening and wherein the insertion member comprises any one of bone screw, a bone peg, a bone spike, or an aperture cover, wherein any one of the bone screw, a bone peg, a bone spike, or an aperture cover comprises a universal-type head that corresponds to the universal-type opening.
39. (Currently amended) An implantable prosthesis, comprising:
  - (a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;
  - (b) at least one opening extending from the first surface to the second surface; the opening comprising (i) an upper portion comprising an extended nonthreaded frustoconical

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 13 of 22

taper section extending through a substantial portion of the opening and (ii) a lower portion a rounded section beginning at a narrow end of the frustoconical taper section and having a smaller diameter than the frustoconical taper section, wherein the opening accommodates an insertion member at multiple orientations relative to the component; and

(c) an insertion member having a head which includes a rounded, nonfrustoconical contact surface that when inserted in the opening contacts said the frustoconical taper section of said opening the upper portion at multiple orientations relative to the prosthetic component and does not contact the lower portion when the insertion member is inserted into the opening;

whereby the insertion member head fits in the upper portion of the opening in a mechanically locked relationship and contacts the frustoconical taper section when locked relative to the frustonical taper at a plurality of angular orientations between the insertion member and the opening, and the head of the insertion member does not protrude beyond the first surface.

40. (New) The implantable prosthesis of claim 3, wherein the lower portion comprises a rounded section beginning at a narrow end of the frustoconical taper section and having a smaller diameter than the frustoconical taper section.

41. (New) The implantable prostheses of claim 1, wherein, when the insertion member is inserted into the opening, there is a gap between the second surface of the prosthetic component and the insertion member head.

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 14 of 22

42. (New) The implantable prostheses of claim 1, wherein the rounded, nonfrustonical contact surface of the insertion member head comprises a spherical surface that approximates a slice of a full sphere.

43. (New) An implantable prosthesis, comprising:

(a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;

(b) at least one opening extending from the first surface to the second surface; the opening comprising (i) an upper portion comprising a conical taper extending through a substantial portion of the opening and (ii) a lower portion; and

(c) an insertion member having a head that comprises a spherical contact surface that contacts the conical taper of the upper portion when locked relative to the taper, and that does not contact the lower portion of the opening when the insertion member is inserted into the opening,

wherein the upper portion of the opening receives and secures the spherical surface of the insertion member head at multiple orientations relative to the component in a substantially fluid tight relationship.

44. (New) An implantable prosthesis, comprising:

(a) a prosthetic component having first and second surfaces, wherein the second surface is oriented toward a bone in which the component is to be implanted;

Appl. No. 10/083,093  
Response to Office action dated June 14, 2006  
Page 15 of 22

(b) at least one opening extending from the first surface to the second surface; the opening comprising a chamfer edge, an upper portion comprising a conical taper, a lower portion comprising a rounded section, and a cylindrical portion, wherein

- (i) the chamfer edge is formed where the opening meets the first surface;
- (ii) the chamfer edge meets the upper portion and wherein the conical taper of the upper portion extends through a substantial portion of the opening,
- (iii) the upper portion meets the lower portion comprising a rounded section at a narrow end of the conical taper; and
- (iv) the lower portion ends at the second surface at cylindrical portion.

45. (New) The implantable prosthesis of claim 44, wherein the rounded section has a smaller diameter than the conical taper.

46. (New) The implantable prosthesis of claim 44, further comprising an insertion member having a head that comprises a spherical contact surface that contacts the conical taper of the upper portion when locked relative to the taper, and that does not contact the lower rounded section of the opening when the insertion member is inserted into the opening, wherein the upper portion of the opening receives and secures the spherical surface of the insertion member head at multiple orientations relative to the component in a substantially fluid tight relationship.